

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3) ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.



PTO/SB/08B (Modified)

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Sheet	2	of	14	Application Number	09/501,622
				Filing Date	February 9, 2000
				First Named Inventor	Mills
				Group Art Unit	1754
				Examiner Name	Langel
Attorney Docket Number				62-226-8AC4-DIV2	

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Abelès, Ed. Chapter 9, "Structure of Trapped Electron and Trapped Hole Centers in Alkali Halides 'Color Centers'." <i>Optical Properties of Solids</i> , 1972, pp. 718-754.	
		Alger et al. "F Centers in Pure and Hydride-Containing Alkali Halide crystals." <i>Physical Review</i> , Vol 97, January 15, 1955, pp. 277-287.	
		Arfken. "Mathematical Methods for Physicists." <i>Academic Press</i> , 1970, pp. 413-415.	
		Baard, Erik. "Quantum Leap." <i>The Village Voice</i> , Dec 22-28, 1999.	
		Baard, Erik. "Researcher Claims Power Tech That Defies Quantum Theory." <i>Dow Jones Newswires</i> , Oct 6, 1999.	
		Bäuerle et al. "Infrared Vibrational Absorption by U-Centers in NaI." <i>Phys. Stat. Sol.</i> , Vol 24, 1967, pp. 207-215.	
OK		Beiser, A. <i>Concepts of Modern Physics</i> , Fourth Edition, McGraw-Hill Book Company, New York, 1978, p. 407.	61
		Bethe, et. al. "Quantum Mechanics of One and Two-Electron Atoms." <i>Cornell University</i> , 1977, pp. 2, 9-12, 47, 83-84, 92, 107.	
		Boniface, et. al. "Calorimetry for a Ni/K ₂ CO ₃ Cell." AECL Research, June 1994.	
		Bradford. "A Calorimetric Investigation of the Reaction of Hydrogen with Sample PSU #1." A Confidential Report submitted to Hydrocatalysis Power Corporation, September 1994.	
		Bush. "A Light Water Excess Heat Reaction Suggests That 'Cold Fusion' May Be 'Alkali-Hydrogen Fusion'." <i>Fusion Technology</i> , Vol 22, Sept. 1992, pp. 301-322.	

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		Clark, et. al. "Excess Energy Cell Final Report." April 1995.	
		Delbecq et al. "Pragmatic Resonance Investigation of Irradiated KCl Crystals Containing U-Centers." <i>Phys. Rev.</i> , Vol 104, Nov 1, 1956, pp. 599-604.	
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SK		Durr, et. al. "Origin of quantum-mechanical complementarity probed by a 'which-way' experiment in an atom interferometer." <i>Nature</i> , Vol 395, September 3, 1998, pp. 33-37.	58
		Evans, et. al. "Time-of-Flight Secondary Ion Mass Spectroscopy (TOF-SIMS) Surface Analysis Report." CE & A Number 40150, March 1994.	
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		Fine, Arthur. "The Shaky Game: Einstein Realism and the Quantum Theory." <i>The University of Chicago Press</i> , 1986, pp.64-85.	
		Fischer. "Die optische Absorption der U ₂ -Zentren in Alkalihalogenidkristallen", <i>Zeitschrift für Physik</i> , Vol 131, 1952, pp. 488-504.	
		Fischer et al. "Sh ⁺ , S ⁺ Und S ⁺ Zentren In KCl-Kristallen." <i>Physics Letters</i> , Vol 13, Oct. 27, 1964, pp. 113-114.	
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		Fritz. "Anionlücken und Zwischengitterionen in Alkalihalogenid-Alkalihydrid-Mischkristallen." <i>J. Phys. Chem. Solids</i> , Vol 23, 1962, pp. 375-394.	

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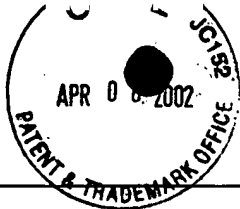
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		Fujimoto, et. al. "Ratio of Balmer line intensities resulting from dissociative excitation of molecular hydrogen in an ionizing plasma" <i>J. Appl. Phys.</i> , Vol 66, No 6, Sept. 1989, pp. 2315-2319.	
		Hansen, et. al. "A response to hydrogen + oxygen recombination and related heat generation in undivided electrolysis cells." <i>J. of Electroanalytical Chemistry</i> , Vol 447, 1998, pp. 225-226.	
SJK		Haus. "On the radiation from point charges." <i>American Journal of Physics</i> , Vol 54, No 12, December 1986. Pp. 1126-1129.	
		Hayashi, Shigenobu. "Accurate determination of ¹ H Knight shifts in Mg ₂ NiH _x and MgH _x by means of high-speed magic angle spinning." <i>Journal of Alloys and Compounds</i> , Vol 248, 1997, pp. 66-69.	
		Hayashi, et. al. " ¹ H NMR and magnetization measurements of a nanostructured composite material of the Mg ₂ Ni-H system synthesized by reactive mechanical grinding." <i>Journal of Alloys and Compounds</i> , Vol 256, 1997, pp. 159-165.	
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		Hilsch. "Eine neue Lichtabsorption in Alkalihalogenidkristalle." <i>Fachgruppe II</i> , pp. 322-328.	
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		Group Art Unit	1754		
		Examiner Name	Langel		
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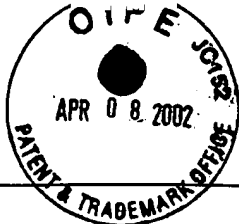
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		Hollander, et. al. "Vacuum ultraviolet emission from microwave plasmas of hydrogen and its mixtures with helium and oxygen." <i>J. Vac. Sci. Technol.</i> , A12 (3), May/June 1994, pp.879-882.	
		Jackson, John David. "Classical Electrodynamics." <i>University of California</i> , Berkley, 1975, Ch. 14.	
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		Jeffreys, et al. "Methods of Mathematical Physics." <i>Cambridge</i> , 1950, pp.618.	
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		Kleinschrod. "Photochemische Zersetzung von KH und KD in KBr-Kristallen." <i>Ausgegeben</i> , Jan. 5, 1939, pp. 143-148.	
		Kline-Anderson, Inc. "Review of Schedule and Resource Requirements to Develop a Hydrocatalysis Functional Prototype Unit." Final Report for Technology Insights, Oct 1996.	

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		Group Art Unit	1754		
Examiner Name	Langel				
Sheet	6	of	14	Attorney Docket Number	62-226-8AC4-DIV2

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		Kolos, et. al. "Accurate Adiabatic Treatment of the Ground State of the Hydrogen Molecule*." <i>Journal of Chemical Physics</i> , Vol 41, No 12, Dec 1964, pp. 3663-3673.	
		Kolos, et. al. "Accurate Electronic Wave Functions for the H ₂ Molecule*." <i>Reviews of Modern Physics</i> , Vol 32, No 2, April 1960, pp. 219-232.	
		Kolos, et. al. "Improved Theoretical Ground-State Energy of the Hydrogen Molecule*." <i>Journal of Chemical Physics</i> , Vol 49, No 1, July 1968, pp. 404-410.	
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		Kurtz, et. al. "Report on Calometric Investigations of Gas-Phase Catalyzed Hydrino Formation." Hydrocatalysis Power Corp. Report, December 1996.	
		Lüpke. "Über Sensibilisierung der photochemischen Wirkung in Alkalihalogenidkristallen." <i>Annalen der Physik</i> , Vol 21, 1934, pp. 1-14.	
		Lüty. "Über Die Natur Der V ₃ -Zentren In Strahlungsverfärbtem KCCl." <i>J. Phys. Chem. Solids</i> , Vol 23, 1962, pp. 677-681.	
		Margenau, et. al. "The Mathematics of Physics and Chemistry." <i>Yale University</i> , 1943, pp. 77-79.	
		Martienssen. "Photochemische Vorgänge in Alkalihalogenidkristallen." <i>Zeitschrift für Physik</i> , Vol 131, 1952, pp. 488-504.	

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		Merzbacher, Eugen. "Quantum Mechanics." 1961, p. 198.	
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SL		Park, Robert L. "Perpetual Motion: Still Going Around." <i>Washington Post</i> , January 12, 2000, pg H03.	
		Pauling, et. al. "Introduction to Quantum Mechanics with Applications to Chemistry." <i>Harvard University</i> , 1985, pp. 121-140.	
		Peterson. "Evaluation of Heat Production from Light Water Electrolysis Cell of Hydrocatalysis Power Corporation." Draft, <i>Westinghouse STC</i> , Feb 1994.	
		Phillips, et. al. "Additional Calorimetric Examples of Anomalous Heat From Physical Mixture of K/Carbon and Pd/Carbon." Consulting Report, Jan 1996.	

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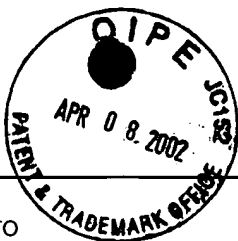
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		Radavanov, et. al. "Ion Kinetic-Energy Distributions and Balmer- α Excitation in Ar II Radio-Frequency Discharges." <i>J. Appl. Phys.</i> , Vol 78, No 2, July 1995, pp. 746-756.	
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		Technology Insights. "Draft: Hydrocatalysis Technical Assessment." PACIFICORP, Aug 1996.	
		Thermacore, Inc. "SBIR Phase I Nascent Hydrogen: An Energy Source." Final Report, March 1994.	
		Thomas. "Zur Photocjemie des KH-KBR-Mischkristalles." <i>Annalen der Physik</i> , Vol 38, 1940, pp. 601-608.	
		Thorne, et. al. "Recombination during the Electrolysis of Light Water in 0.6 M K ₂ CO ₃ Can It Account for the Reports of Excess Heat?" <i>Departments of Physics and Chemistry, Brigham Young University</i> , June 1993.	

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		Tolman, Richard C. "The Principles of Statistical Mechanics." California Institute of Technology, 1979, pp. 180-188.	
01C		Weisskopf, V.F. "Recent developments in the theory of the electron." <i>Reviews of Modern Physics</i> , Vol 21, No 2, 1949, pp. 305-315.	59
		Wheeler, et. al. "Quantum Theory and Measurement." Translation of Heisenburg's Uncertainty Principle Paper, <i>Zeitschrift für Physik</i>, 1927, Vol 43, pp. 172-198.	

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		Barton, et al, "Investigating Radio Frequency Plasmas Used for the modification of Polymer Surfaces" <i>J. Phys. Chem. B</i> , Vol 103, 1999, pp. 4423-4430.	
		Bogaerts, et al. "Effects of adding hydrogen to an argon glow discharge: overview of relevant processes and some quantitative explanations." <i>Journal of Analytical Atomic Spectrometry</i> , March 2000.	
		Dery, et al. "Effect of Dielectric Constant, Cavities in Series and Cavities in Parallel on the Product Distribution of the Oligomerization of Methane via Microwave Plasmas." <i>J. Phys. Chem.</i> , Vol 100, 1996, pp. 17866-17872.	
		Roberts, et al. "Hydrogen Balmer alpha line shapes for hydrogen-argon mixtures in a low-pressure rf discharge." <i>J. Appl. Phys.</i> , Vol 74, No 11, December 1993.	
		Videnovic, et al. "Spectroscopic investigations of a cathode fall region of the Grimm-type glow discharge." <i>Spectrochimica Acta Part B</i> , Vol 51, 1996, pp. 1707-1731.	

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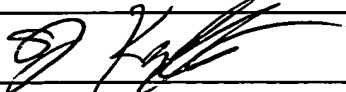
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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete if Known			
		Application Number	09/501,622		
		Filing Date	02/09/2000		
		First Named Inventor	Mills		
		Group Art Unit	1754		
		Examiner Name	Langel		
Sheet	12	of	14	Attorney Docket Number	

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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OK		R. Mills, P. Ray, J. Dong, M. Nansteel, W. Good, P. Jansson, B. Dhandapani, J. He, "Excessive Balmer Line Broadening, Power Balance, and Novel Hydride Ion Product of Plasma Formed from Incandescently Heated Hydrogen Gas with Certain Catalysts", Int. J. Hydrogen Energy, submitted	78
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OK		R. Mills, J. Dong, W. Good, P. Ray, J. He, B. Dhandapani, "Measurement of Energy Balances of Noble Gas-Hydrogen Discharge Plasmas Using Calvet Calorimetry", Int. J. Hydrogen Energy, in press.	86
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